under 37 C.F.R. § 1.136(a), and any fees required therefor (including fees for net addition of claims) are hereby authorized to be charged to our Deposit Account No. 19-0036.

## **Amendments**

## Please substitute the following claim 1 for the pending claim 1:

- 1. (Once amended) A method of making at least one nucleic acid molecule, said method comprising
  - (a) combining, in a mixture, at least one nucleic acid template, at least one polymerase or at least one reverse transcriptase, and an enzyme selected from the group consisting of a pentosyltransferase, a phosphotransferase with an alcohol group as acceptor, a nucleotidyltransferase, and a carboxy-lyase; and
  - (b) incubating said mixture under conditions sufficient to make one or more first nucleic acid molecules complementary to all or a portion of said nucleic acid template.

## Please add the following claims:

52. (New) The method of claim 1, wherein said enzyme is a pentosyltransferase.

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53. (New) The method of claim 52, wherein said enzyme is an adenine phosphoribosyltransferase or an orotate phosphoribosyltransferase.

- 54. (New) The method of claim 1, wherein said enzyme is a phosphotransferase with an alcohol group as acceptor.
- 55. (New) The method of claim 54, wherein said enzyme is a pyrophosphate: glycerol phosphotransferase, a pyrophosphate: serine phosphotransferase, a pyrophosphate: fructose-6-phosphate 1-phosphotransferase or a pyrophosphate: purine nucleoside kinase.



- 56. (New) The method of claim 1, wherein said enzyme is a nucleotidyltransferase.
- 57. (New) The method of claim 56, wherein said enzyme is an ATP: sulfate adenylyltransferase, a UTP: glucose-1-phosphate uridylyltransferase or an ATP: glucose-1-phosphate adenylyltransferase.
  - 58. (New) The method of claim 1, wherein said enzyme is a carboxy-lyase.
- 59. (New) The method of claim 58, wherein said enzyme is a phosphoenolpyruvate carboxykinase.
- 60. (New) The method of claim 1, wherein said reverse transcriptase is a retroviral reverse transcriptase.

- 61. (New) The method of claim 1, wherein said reverse transcriptase is an AMV reverse transcriptase or a RSV reverse transcriptase.
  - 62. (New) The method of claim 1, further comprising:
    - (c) incubating said one or more first nucleic acid molecules under conditions sufficient to synthesize one or more second nucleic acid molecules complementary to all or a portion of said one or more first nucleic acid molecules.
- 63. (New) The method of claim 1, wherein said polymerase is an RNA polymerase or a DNA polymerase.
- 64. (New) The method of claim 63, wherein said DNA polymerase is thermostable.
  - 65. (New) A composition comprising:
    - (a) an enzyme selected from the group consisting of a
      pentosyltransferase, a phosphotransferase with an alcohol group as
      acceptor, a nucleotidyltransferase, carboxy-lyase; and
    - (b) at least one polymerase or at least one reverse transcriptase.
- 66. (New) The composition of claim 65, wherein said enzyme of (a) is a pentosyltransferase.

- 67. (New) The composition of claim 66, wherein said enzyme of (a) is an adenine phosphoribosyltransferase or an orotate phosphoribosyltransferase.
- 68. (New) The composition of claim 65, wherein said enzyme of (a) is a phosphotransferase with an alcohol group as acceptor.
- 69. (New) The composition of claim 68, wherein said enzyme of (a) is a pyrophosphate: glycerol phosphotransferase, a pyrophosphate: serine phosphotransferase, a pyrophosphate: fructose-6-phosphate 1-phosphotransferase or a pyrophosphate: purine nucleoside kinase.
- 70. (New) The composition of claim 65, wherein said enzyme of (a) is a nucleotidyltransferase.
- 71. (New) The composition of claim 70, wherein said enzyme is an ATP: sulfate adenylyltransferase, a UTP: glucose-1-phosphate uridylyltransferase or an ATP: glucose-1-phosphate adenylyltransferase.
- 72. (New) The composition of claim 65, wherein said enzyme of (a) is a carboxy-lyase.

- 73. (New) The composition of claim 72, wherein said enzyme of (a) is a phosphoenolpyruvate carboxykinase.
- 74. (New) The composition of claim 65, further comprising a substrate which is capable of either accepting a phosphate radical to give a phosphorylated product from pyrophosphate or effecting transfer of pyrophosphate when in the presence of said enzyme of (a).
- 75. (New) The composition of claim 65, wherein said reverse transcriptase is a retroviral reverse transcriptase.
- 76. (New) The composition of claim 65, wherein said reverse transcriptase is an AMV reverse transcriptase or a RSV reverse transcriptase.
- 77. (New) The composition of claim 65, wherein said polymerase is an RNA polymerase or a DNA polymerase.
- 78. (New) The composition of claim 77, wherein said DNA polymerase is thermostable.
- 79. (New) A kit comprising an enzyme selected from the group consisting of a pentosyltransferase, a phosphotransferase with an alcohol group as acceptor, a nucleotidyltransferase, a carboxy-lyase, a substrate which is capable of either accepting a

phosphate radical to give a phosphorylated product from pyrophosphate or effecting transfer of pyrophosphate when in the presence of said enzyme; and at least one polymerase or at least one reverse transcriptase.

80. (New) The kit of claim 79, wherein said reverse transcriptase is a retroviral reverse transcriptase.

81. (New) The kit of claim 79, wherein said reverse transcriptase is an AMV reverse transcriptase or a RSV reverse transcriptase.

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- (New) The kit of claim 79, wherein said polymerase is an RNA 82. polymerase or a DNA polymerase.
- 83. (New) The kit of claim 82, wherein said DNA polymerase is thermostable.
- (New) The method of claim 62, further comprising amplifying said first 84. nucleic acid molecules or said second nucleic acid molecules.